Comparisons of Job Characteristics

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge — Similarity of Focus Occupation to Associated Occupation: 64

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Engineering and Technology	5.7	20.8	9.0	<<	Extensive education and/or training may be required
Design	5.2	20.6	5.5	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	19.7	21.5	0	Current knowledge level may be sufficient
Mathematics	9.2	16.8	9.1	<<	Extensive education and/or training may be required
Physics	4.3	11.6	2.5	<<	Extensive education and/or training may be required
Production and Processing	6.0	11.1	4.8	<<	Extensive education and/or training may be required
Mechanical	6.8	9.9	3.2	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.2	13.4	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills — Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Systems Analysis	6.5	12.5	11.1	<	A higher skill level may be required
Quality Control Analysis	5.9	11.1	9.8	<	A higher skill level may be required
Systems Evaluation	6.4	10.7	11.0	0	Current skill level may be sufficient

Troubleshooting	4.5	10.0	7.8	<	A higher skill level may be required
Equipment Selection	3.3	9.0	4.4	<<	Extensive development of skills in this area may be required
Repairing	3.4	8.6	3.9	<<	Extensive development of skills in this area may be required
Programming	2.2	8.1	8.5	0	Current skill level may be sufficient
Technology Design	2.6	8.1	6.5	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities — Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Written Comprehension	11.0	14.5	13.2	0	Current ability level may be sufficient
Information Ordering	9.9	13.3	11.8	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	12.8	7.9	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	11.6	10.7	0	Current ability level may be sufficient
Visualization	7.5	11.0	8.8	<	Some improvement in abilities may be required
Originality	7.6	10.7	9.1	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	10.7	6.8	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	10.3	9.9	0	Current ability level may be sufficient
Memorization	5.6	7.6	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common — Similarity of Focus Occupation to Associated Occupation: 49

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Work Activities	Exclusivity of Activity
Communicate technical information	4
Develop policies, procedures, methods, or standards	21
Follow confidentiality procedures	58
Use computers to enter, access or retrieve data	3
Use knowledge of investigation techniques	16
Use spreadsheet software	18

Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Electronics Engineers, Except Computer (17-2072)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1
Light and wave generating and measuring equipment	4
Network applications software	1
Operating environment software	12

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.